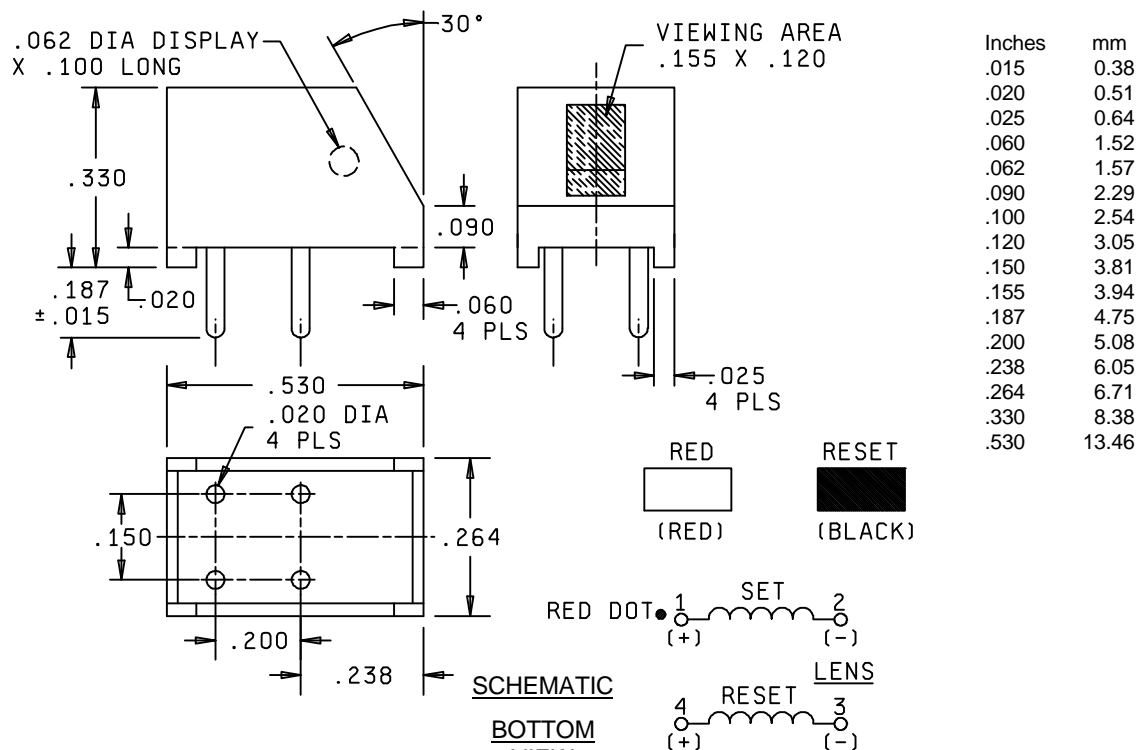


PERFORMANCE SPECIFICATION SHEET

INDICATORS, FAULT LOCATING, INTERNAL DRUM INDICATING, ELECTRICAL RESET, PRINTED CIRCUIT MOUNTING

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the indicators described herein shall consist
of this specification sheet and the latest issue of MIL-PRF-83287.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified tolerance is ± 0.010 (0.25 mm).
4. No fault indication color shall be black.
5. Terminal numbers are for reference only and may not be marked on the indicator.
6. Fault indication color similar to lusterless red no. 39805 per FED-STD-595.

FIGURE 1. Dimensions and configurations.

REQUIREMENTS:

Dimensions and characteristics: See figure 1 and tables I.

Weight: 2 grams maximum.

Transfer pulse length: A pulse of 20 milliseconds or greater shall cause a fault indication. A pulse length of 1 millisecond or less shall not cause a fault indication.

Operation: The unit is provided with a set and reset a coil. A 20 millisecond pulse of the proper polarity applied to the set coil will cause an internal drum magnet to rotate and display a red color. A similar pulse proper polarity applied to the reset coil will cause the drum to rotate and show black. The drum is magnetically latched and will remain in the position last pushed. The device is nonvolatile, remaining in the set or reset condition without input power.

Terminal strength: Test condition A (.5 pound).

Marking of terminal: The positive terminal of the "set" coil shall be identified by a red dot as shown on figure 1.

Vibration:

For 10 Hz to 1 kHz: .06 inch double amplitude or 20 g's peak sine, whichever is less (3 defined axis).

For 10 Hz to 2 kHz: .06 inch double amplitude or 10 g's peak sine, whichever is less (2 defined axis).

Dielectric withstanding voltage: 100 V dc between coils.

Electrical: Minimum pulse power shall be 90 mW.

Life: At 3.5 V dc, 5.0 V dc, and 6.0 V dc for dash numbers 01 and 02. At 9.6 V dc, 12.0 V dc, and 14.5 V dc for dash numbers 03 and 04.

Mechanical specifications:

Case: Black molded polyester.

Window: Glass.

Display colors: Red (set) and black (reset).

Extent of qualification: Qualification testing and approval of M83287/05-01 shall be sufficient to grant qualification approval for all indicators covered by this specification sheet.

Part number: M83287/05- (dash number from table I).

Random vibration: Not applicable.

TABLE I. Indicator characteristics.

Military part numbers	Voltage (volts, dc)			DC coil resistance at						Anti- reflection coating	Termination type	Diodes
	Rated	Operating		-55°C		+125°C		Ambient				
		Min 1/	Max	Min	Max	Min	Max	Min	Max			
M83287/05-												
01	5.0	3.5	6.0	82	102	174	215	126	155	No Coating	Solder terminals	No diodes
02	5.0	3.5	6.0	82	102	174	215	126	155	With Coating	Solder terminals	No diodes
03	12.0	9.6	14.5	502	615	1065	1303	769	941	No coating	Solder terminals	No diodes
04	12.0	9.6	14.5	502	615	1065	1303	769	941	With coating	Solder terminals	No diodes

1/ Refers to the minimum operating voltage which the indicator will operate.

CONCLUDING MATERIAL

Custodians:
Navy - AS
Air Force - 11
DLA – CC

Preparing activity:
DLA - CC

(Project 6625-0899)